

## HHE UNIVERD SYMMES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Annhems BH

ILCCORS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY TEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN APPUBLIC REPOSITORY AS PROVIDED BY LAW, THE GIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR REPRODUCING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PROSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### **LETTUCE**

'Caliente'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hunt Inrictu Frotection Office to be affixed at the City of Washington, D.C. this eleventh day of December, in the year two thousand and six.

Allast

De Marianer
Commissioner

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary of Agriculture

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mall application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/PVPO/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

First sale in the European Union: Italy; January 2000

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

COUNTRY/AUTHORITY : EUROPEAN UNION

IDENTIFIER :PBR 990206

LATIN NAME :Lactuca sativa L.

DENOMINATION/accepted :1999.12.20 CALIENTE

BREEDER'S REFR. :lm8052 APPL./FILING NUMB. :990206 APPL./FILING DATE :1999.02.15 DATE PUBL. APPL./FILING :1999.04.15

GRANT/REG. NUMB. :5666 DATE PUBL. GRANT/REG. :2000.02.15

GRANT/REG. DATE :1999.12.20 EXPIRATION CALC. :2024.12.31

APPLICANT :NUNZA B.V. BREEDER :NUNZA B.V.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (9-00) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

Variety Name: 'Caliente' PVP Application No.: 200100274

#### **Exhibit A**

1) The genealogy, including public and commercial varieties, lines, or clones used, and the breeding method:

'Caliente' originated from a cross made by the Applicant, NUNHEMS B.V., in 1991 in s'Gravenzande, The Netherlands. The female or seed parent is *Lactuca sativa L.* variety designated by Breeder's Reference Number 2-175520 (unpatented) and is characterized by dark green leaves and *Bremia* downy mildew resistance Dm 0. The male or pollen parent is *Lactuca sativa L.* variety designated by Breeder's Reference Number 71-910093 (unpatented) and is characterized by blonde leaves and *Bremia* downy mildew resistance Dm 18.

The most similar *Latuca sativa L.* variety to 'Caliente' is designated 'Green Sun' (disclosed in pending PVP Appl. No. 200100273) and has been commercially available/disclosed since January 2000 in Italy.

The objective of the cross was to develop a new butterhead variety with dark green leaf color, slow bolting, and *Bremia* downy mildew resistance to pathotypes NL 1-16 and BL 17 & 21. The combination of resistance to *Bremia* downy mildew pathotypes NL 1-16 and BL 17 & 21 is defined as Gene DM 18.

A single plant selection with the desired characteristics in combination with resistance to *Bremia* downy mildew was conducted from F2 through F8 generations. Stability for *Bremia* downy mildew resistance pathotypes NL 1-16 and BL 17 & 21 was achieved in the F5 generation.

2) The details of subsequent stages of selection and multiplication:

In 1996, the 'Caliente' variety was uniform and genetically stable for type in the F8. There were commercial seed productions in greenhouses in 1996, 1997, 1998, and 1999.

3) Evidence of uniformity and stability:

The 'Caliente' variety has exhibited genetic stability and uniformity for horticultural type from the F7 generation. Stability for *Bremia* downy mildew resistance has been maintained since the F5 generation.

4) The type and frequency of variants during reproduction and state how these variants may be identified:

No variants have been found.

### I. Exhibit A - Origin and Breeding History

Per the Examiner's request, Applicant provides the following additional information regarding the origin and breeding information for the Lettuce Variety 'Caliente':

The female or seed parent designated '02-175520' and the male or pollen parent designated '71-910093' are both unpatented varieties from the private proprietary collection of the Applicant. These parental varieties were not purchased, and the Applicant is unaware of any publicly known varieties being derived from these parental varieties.

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Variety Name: 'Caliente' PVP Application No.: 200100274

#### Exhibit B

#### Statement of Distinctness

The following traits have been repeatedly observed and are determined to be the unique characteristics of the new *Lactuca sativa L.* variety 'Caliente'. These characteristics in combination distinguish 'Caliente' as a new and distinct butterhead lettuce variety: 1) dark green leaf color, 2) slow bolting, 3 white seed color, and 4) resistance to *Bremia* downy mildew pathotypes NL 1–16 and BL 17 & 21. The combination of resistance to *Bremia* downy mildew pathotypes NL 1-16 and BL 17 & 21 is defined as Gene DM 18.

Of the many commercial *Lactuca sativa L.* varieties known, the most similar in comparison to the new butterhead lettuce variety 'Caliente' is the butterhead lettuce variety 'Green Sun' (as disclosed in pending USDA PVP Application Number 200100273). In side-by-side comparisons conducted in s'Gravenzande, The Netherlands, 'Caliente' differed from 'Green Sun' in the characteristics described in Table 1:

Table 1

Characteristic	New Variety 'Caliente'	Comparison Variety 'Green Sun' (Disclosed in pending PVP Application No. 200100273)
Head Firmness	Moderate	Firm
Cotyledon Fourth Leaf Traits	Shape: 3, Oval Undulation: Medium	Shape: 4, Rounded Undulation: Flat
Expressed Gene(s) for Bremia downy mildew resistance	DM 18	DM 18
Glossiness of upper site	Weak to medium	Medium
Blistering	Weak to medium	Medium

#### UPOV variety description translation from Dutch

1. Reference number of reporting authority

2. Reference number of requesting authority

3. Breeder's reference

4. Applicant

: SLA 1082

5. Botanical name of taxon 6. Common name of taxon

7. Variety denomination

8. Document number and date UPOV guidelines

9. Document number and/or date of national test guidelines

10. Testing authority

11. Testing station(s) and place(s)

12. Period of testing

13. Date and place of issue of document

: Lactuca sativa L.

: Lettuce

: Caliente

: TG/13/7 d.d. 16-10-1993

: Raad v/h Kwekersrecht,

Wageningen, NL : CPRO, Wageningen

: 1998

: 21-10-1999, Wageningen

Remarks

14. Group: (if characteristics of number 15 are used for grouping, they are marked with a \*G\* in that number).

UPOV No.	Characteristics	States of expression	Note
	Growth type (at harvest maturity)	butterhead lettuce	1
•	Suitable for:	outdoors	2
<del>1.</del>	Seed: color	White	1
2.	Seedling: anthocyanin coloration	absent	1
19.	Leaf: anthocyanin coloration	absent	1
37.	Time of beginning of bolting under long day conditions	late to very late	8



THO 101010

Reference number of reporting authority:

Leaf: color of outer leaves

SLA 1082

## 15. Characteristics included in the UPOV quidelines or national test quidelines

			•	
UPOV No.	Characteristics	States of expression	Note	Remarks
1.G	Seed: color	white	1	
2.G	Seedling: anthocyanin coloration	absent	1	
3.	Seedling: size of cotyledon	medium	5	
4.	Seedling: shape of cotyledon	elliptic to broad elliptic	6	
5.	Leaf: attitude (at 10-12 leaf stage)	semi-erect to prostrate	6	•
6.	Leaf blade: division (time as for 5)	entire	1	
7.	Plant: diameter	medium	5	to large (6)
8.	Plant: head formation	closed head (overlapping)	3 .	
9.	VARIETIES WITH CLOSED HEAD: Head: degree of overlapping of leaves	medium to strong	6	
LO.	Head: density	medium to dense	6	
1.	Head: size	medium	5	
2.	Head: closing of base	strong	7	
3.	Head: shape in longitudinal section	circular	. 3	
4.	Leaf: thickness	medium to thick	6	
5. :	Leaf: attitude of outer leaves (at harvest maturity)	semi-erect to nearly horizontal	6	SUMMATAIRE DES V
6. 1	Leaf: shape	transverse broad elliptic	5	****

green



440 1300 W

Reference number of reporting authority:

(as for 32)

SLA 1082

## 15. Characteristics included in the UPOV quidelines or national test quidelines

UPOV	Characteristics	States of expression	Note	Remarks
18.	Leaf: intensity of color of outer leaves	dark	7	
19.G	Leaf: anthocyanin coloration	absent	1	
20.	Leaf: intensity of anthocyanin coloration	-	-	
21.	Leaf: distribution of anthocyanin	-	-	
22.	Leaf: kind of anthocyanin distribution	-	-	
23.	Leaf: glossiness of upper side	medium	5	
24.	Leaf: surface profile of outer leaves	flat	5	
25.	Leaf: blistering	medium	5	
26.	Leaf: size of blisters	medium to large	6	
27.	Leaf blade: degree of undulation of margin	absent or very weak	1	
28.	Leaf blade: presence of incisions on margin on apical part	absent	1	
29.	Leaf blade: depth of incisions on margin on apical part	-	-	
30.	Leaf blade: degree of incisions on margin apical part		-	
31.	Leaf blade: venation	not flabellate	1	S THURWAIRE
32.	Plant: height (flowering plant)	-	-	MANUFACTURE OF THE PARTY OF THE
33.	Stem: fasciation (as for 32)	present	9	
34.	Stem: intensity of fasciation	very weak	1	OFFICE *



#### UPOV variety description translation from Dutch

1. Reference number of reporting authority 2. Reference number of requesting authority

3. Breeder's reference

4. Applicant

: Lactuca sativa L.

5. Botanical name of taxon 6. Common name of taxon

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: Lettuce

: Green Sun

: TG/13/7 d.d. 16-10-1993

: Raad v/h Kwekersrecht, Wageningen, NL

: CPRO, Wageningen

: 1998

: 21-10-1999, Wageningen

Remarks

14. Group: (if characteristics of number 15 are used for grouping, they are marked with a "G" in that number).

UPOV No.	Characteristics	States of expression	Note
	Growth type (at harvest maturity)	butterhead lettuce	1
-	Suitable for:	outdoors	2
1.	Seed: color	white	. 1
2.	Seedling: anthocyanin coloration	absent	1
19.	Leaf: anthocyanin coloration	absent	1
37.	Time of beginning of bolting under long day conditions	late to very late	8



2400b

Reference number of reporting authority:

SLA 1081

## 15. Characteristics included in the UPOV quidelines or national test quidelines

UPOV No.	Characteristics	States of expression	Note	Remarks
1.G	Seed: color	white	1	
2.G	Seedling: anthocyanin coloration	absent	1	
3.	Seedling: size of cotyledon	small to medium	4	
4.	Seedling: shape of cotyledon	elliptic to broad elliptic	6	
5.	Leaf: attitude (at 10-12 leaf stage)	semi-erect to prostrate	6	
6.	Leaf blade: division (time as for 5)	entire	1	
7.	Plant: diameter	medium to large	6	to medium (5)
8.	Plant: head formation	<pre>closed head (overlapping)</pre>	3	
9.	VARIETIES WITH CLOSED HEAD: Head: degree of overlapping of leaves	medium to strong	6	•
10.	Head: density	medium to dense	6	to dense (7)
11.	Head: size	medium	5	
12.	Head: closing of base	strong	7	
13.	Head: shape in longitudinal section	circular	_ 3	
14.	Leaf: thickness	medium to thick	6	
15.	Leaf: attitude of outer leaves (at harvest maturity)	semi-erect	5	
L6.	Leaf: shape	transverse broad elliptic	5	SHAUNUTAIRE DES VA
17.	Leaf: color of outer leaves	green	2	# * * * * * * * * * * * * * * * * * * *



Green Sun

3

Reference number of reporting authority:

SLA 1081

## 15. Characteristics included in the UPOV quidelines or national test guidelines

UPOV No.	Characteristics	States of expression	Note	Remarks
18.	Leaf: intensity of color of outer leaves	dark	7	
19.G	Leaf: anthocyanin coloration	absent	1	
20.	Leaf: intensity of anthocyanin coloration	-	•••	
21.	Leaf: distribution of anthocyanin	-	-	
22.	Leaf: kind of anthocyanin distribution	-	-	
23.	Leaf: glossiness of upper side	weak to medium	4	to medium (5)
24.	Leaf: surface profile of outer leaves	concave to flat	4 .	
25.	Leaf: blistering	weak to medium	4	
26.	Leaf: size of blisters	medium to large	6	•
27.	Leaf blade: degree of undulation of margin	absent or very weak	1	
28,	Leaf blade: presence of incisions on margin on apical part	absent	1	
29,	Leaf blade: depth of incisions on margin on apical part	-	- -	
30	Teaf blade, downer of tout !		-	

PAY09/7/06

# U. S. Department of Agriculture Agricultural Marketing Service Science and Technology Program OBJECTIVE DESCRIPTION OF VARIETY LETTUCE Lactuce sativa

NAME OF APPLICANT (S)	<del>aby</del> Nunher	ne RV	FOR OF	FICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. N			7001	00274
<b>V</b> Street	and No: Voort 6		VARIETY NAME	
	Nunhem - Zip: 6083 AC	. '	Calin	ente_
	ry: The Netherlands		EXPERIMENTAL D	ESIGNATION
Place numbers in the boxes for the charspaced plants. Royal Horticultural Soci	acters which best describe this ety or any recognized color st	s variety. Measured data sho andard may be used to dete	ould be the mean of an appropriat	te number (at least 10) of
The location of the test area is: Noordlandseweg 54	, 2691 KM 's-Gravenzar	Color System	Used:	
1. PLANT TYPE: (See list of sugge	ested check verieties page 4.)			~.
01-Cutting/Lea 02-Sutterhead 03-Bibb 04-Coz or Rom	06~Vanguard Gr 07=Imperial Gro	roup 10-Latin ivo 11-OTH	Ä-	
2. SEED: COLOR 1-White (Silver Gray)	LIGHT DOR	MANCY	HEAT DORMANCY	
1 2-Black (Gray Brown 3-Brown (Amber)	The let who stand	la I	1=Susceptible 2=Not Susceptible	
3. COTYLEDON TO FOURTH LEAF S	TAGE: NOTE: Provide a co	Hor photograph or photoco	py of the fourth leaf from 20 day	old seedling
SHAPE OF COTYLEDO	grown under	r optimal conditions Intermediata 3-	Spatulate	
3 SHAPE OF FOURTH LE			() 25 m	
1 .	2 3	4	5 6	
3 0 LENGTH/WIDTH INDEX	OF FOURTH LEAF: LW x	10		
1 APICAL MARGIN:	) 1-Entire	4-Moderately Dentate	7-Lobed	
8ASAL MARGIN:	2-Creanate/Gnawed	5-Coarsely Dentate	8-OTHER (specify)	
	Jafinely Dentaza	5=(ncised		
3 UNDULATION:	1=Flat	2#Slight ,	3-Medium	4-Marked
4 GHEEN COLOR:	1-Yellow Green	3-Medium Green	5#Blue Green	7-Gray Green
ANTHOCYANIN:	2-Light Green	4-Dark Green	6-Silver Green	
1 DISTRIBUTION:	1=Absent 2=Margin Only	3=Spotted 4=Throughout	5-OTHER (soedly)	
CONCENTRATION:	t=Light	2-Moderate	. '3-Intense	
1 ROLLING:	1-Absent	2-Present		
1 CUPPING:	1+Uncupped	2-Slight	3-Markedly	
1 REFLEXING:	1-None	2-Apical Margin	3-Lazeral Margins	13

200100 2 19

	N	OTE:	Provide color photo of herves MARGIN:	t-mature leaves which occurately shows color	and margin characteristics.	
		1	INCISION DEPTH:	1=Absent/Shallow (Dark Green Bosto of the margin)	n) 2-Moderetz (Vanguard)	3-Deep (Great Lakes 655
		1	INDENTATION: (finest divisions of the me	1-Entire (Oark Green Boston) rein) 2-Shallowly Dentate (Great Lakes 65)	3-Deeply Dentate (Great Lakes 659) 4-Crenate (Vanguard)	5-OTHER (apecify)
		1	UNDULATION OF T APICAL MARGIN:	HE 1-Absent/Slight (Dark Green Boston)	2-Moderate (Vanguard)	3-Strong (Great Lakes 65
		4	GREEN COLOR:	1-Very Light Green (Bibb) 2-Light Green (Minetto)	3-Medium Green (Great Lakes) 4-Dark Green (Vanguard)	5-Very Dark Green 5-OTHER
			ANTHOCYANIN Aroun	st or below 10 C):		
		1	DISTRIBUTION;	1-Absent 2-Margin Only (Big Boston)	3~Spotted (Calif, Cream Butter) 4=Throughout (Prize Head)	5-OTHER (specify)
			CONCENTRATION:	1-Light (Iceberg)	Z=Moderate (Prize Head)	iyduff) ornami-E
	,	2	SIZE;	1=\$mail	2-Medium	3-Large
		2	GLOSSINESS:	1-Dult (Venguerd)	2-Moderate (Selinas)	3-Glossy (Great Lakes)
		2	BLISTERING:	t=Absent/Slight (Salinas)	2-Moderate (Vanguard)	3-Strong (Prize Head)
		3	LEAF THICKNESS:	T-Thia	2-Intermediate	3-Thick
		1	TRICHOMES:	1=Absent (smooth)	2-Present (spiny)	
5. P	LAN	T fat	market stage. Chaose a comp	arison variety appropriate for this type.):		
[	3		SPREAD OF FRAME LEAVE	3 3 cm LM 8050	lapecify comparison variety	J
	2	8	m This Variety	rimmed with single cap leaf):  3 0 cm LM 8050	(specify comparison variety	1
		1	HEAD SHAPE:	1-Flattened 2-Slightly Flattened		S-Non-Heading S-OTHER
		2	HEAD SIZE CLASS:	1-Small	2-Medium	I=Large
[	$\Box$	$\Box_{\_}$	HEAD COUNT PER CARTO	<b>Y</b>		
4	5	UI	HEAD WEIGHT:  This Variety	4 5 0 LM 8050	lepecity comparison veriety)	
	_[	2	HEAD FIRMNESS:	1=Loose 2=Moderate	3-Fina 4-Very Fina	<u> </u>
6. BU	177	batto	m of merket-trimmed head):			
		2 3	SHAPË:	1-Slightly Concave	2-Flaz 3	-Rrunded
	Ŀ		MIDA(8:	1=Flattened (Salinas)	2-Moderately Raised 3	Prominently Raised (Great Lakes 6591
7. COR	ie (+	ittn o	f market-trimmed head):			
	2 ] (		nm Diameter at base of head	· · · · · · · · · · · · · · · · · · ·		
2	] [1	_ لـــ	latio of head diameter/core dia	·		
2	2 ] (	<u></u>	ore height from base of head to m. This Variety	2 0 mm LM 8050	(specify comparison writty)	
d. BOL	Tik	G (CI	ve First Water Date		e date seed first receives adequate moint ren does equal the planting date.	148
6	0		umber of days from First Weti his Variety	tr Date to seed stalk emergence (summer ed		
	2	<u> </u>	OLTING CLASS.	=Very Slow 3		Very Rapid
1 5	0		eight of mature seed stalk:  This Variety	1 6 0 cm LM 8050	(specify companion watery)	14

200100274)

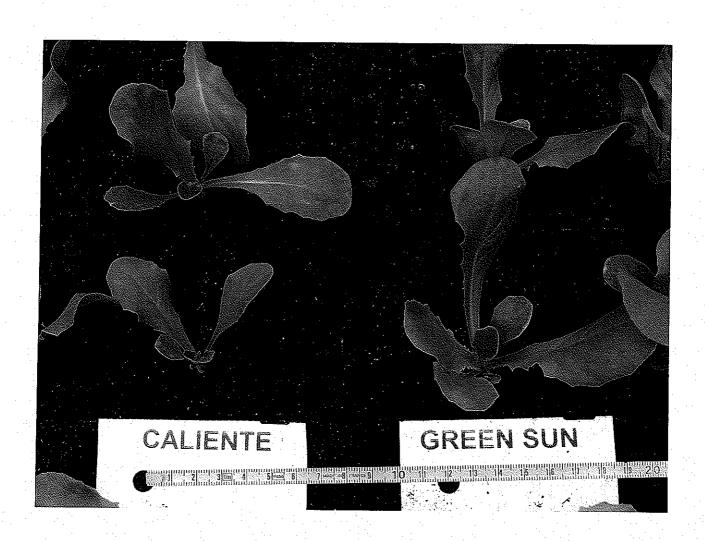
-	Spread of Botter Plant fot w		•	
5 0	cm This Variety	5 5 cm _	LM 8050	eelly comparison variety;
	BOLTER LEAVES:	1=Straight	2-Curved	
1	MARGIN:	1=Entire	2-Orotate	
3	COLOR:	≻Light Green	2-Medium Gre	en 3-Dark Green
1	BOLTER HABIT: TERMINAL INFLORESCENCE:	1-Absent	Z-Present	
2	LATERAL SHOOTS: laboue heads	1#Absent	2-Present	
	BASAL SIDE SHOOTS:	1-Absent	2-Present	
	jearliness of harvest-mature he			
	omplete this section for at less	<del></del>		
SEASO	ON Apolic, 2 Fol days	Check 1/- #of days	- сн	ECK VARIETY 4
Spring	6 5	60	LM 8050	
Summa	3 5	3 2	LM 8050	
Fall	5 0	4 5	LM 8050	
Winter				
Give planting da	refs), and location(s):			
Spring	April/May; Noordlan	dseweg 54, 269	91 KM 's-Gravenzande, th	ne Netherlands
Summer	July/August; Noordla	indseweg 54, 2	691 KM 's-Gravenzande,	the Netherlands
Fall	September/October;	Noordlandsew	eg 54, 2691 KM 's-Grave	nzande, the Netherlands
	No plantings			
	ter dese to hervest.	3/Fill in check varie	ty name on the appropriate line,	
10. ADAPTATION: PRI	: MARY REGIONS OF ADAPT	TION (restad and prove	n adapted): (0-Not tested	1-Not Adapted 2=Adapted)
500	thwest [Colif., Arts, desert]	West Coast	Marketon, and the state of the	
	theen trait			
<del></del> -	SON:	Southeast	OTHER	
	Spring (area		Fall (area	
	Summer (area	1	Winter (area	
GAE	ENHOUSE: 0-A	ot tested	1=Not Adapted	2-Adapted
3 5011	TYPE: 1-M	ineral	2-Organic	3-Both
PRM L5-470-1				Page 3 of

VIRUS    Support   Correspondence   Corr	•	I. DISEASES A	NO STRESS REACTIONS (0=Not tested; 1=Susceptible; )	=Intermediate; 3=Resistant; 4=Highly resistant; 5=1 discanti;	: .
Lettuce Mosaic   3 Downy Mildew (Rases NL 1-16; BL17,21 )   1   Cucomber Mosaic   6   Providery Mildew   2   Seteroicha Rot   3   Seteroicha Rota   3			VIRUS	FUNGAL/BACTERIAL	
Toucumber Mosaid   O Prowdery Mildew		•	1_Big Vein		
Groad Bean Wift   Care   Sectorish Rot   Care   Sectorish Soft Rot   Pseudomonas sop. & others		•	5 Lettuce Mosaic	3 Downy Mildew (Races NL 1-16; BL17,21	
Turnip Mossic   2   Bacterial Soft first   Presudemonas spo. & others    Seek Western Yellows   2   Bottryits   Gray Motel			1 Cucumber Mosaic	Powdery Mildew	٠.
Turnip Mossic   2   Bactsrial Soft For (Pesudomonas spo. & others)			O Broad Bean Wilt		
Sett Western Yellows   2   Borrvits (Gray Motel)			Tumip Mosaic		
Other Virus    Other Virus			<u>e</u>	<u>16.1</u>	
Other Virus    NEECTS	••		<u> </u>		
INSECTS			<u>U.,</u>		
Comments:			Other vilus		
TYPE    CHECK VARIETY   CUTTING/LEAF   CHECK VARIETY   SALAD BOWL   DARK GREEN BOSTON BIBBY   DA		•	INSECTS	PHYSIOLOGICAL/STRESS	
Office Peach Aphid  Other Insect  Other Inse			O Cabbage Loopers	4 Tipbum 2 Şait	
Other Insect 2 Cold  POST HARVEST  PINK RIB 4 Internal Rib Necrosis (Blackheart, Gray Rib, Gray Stread)  Russer Sporting 4 Brown Stain  Russer Sporting 5 Russer Sporting 6 Russer Stread (Blackheart, Gray Rib, Gray Stread)  12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:  The data and information presented are based on testing and evaluation of the variety in the Netherlands. The climate conditions in the Netherlands are a moderate sea climate. Especially the references made in questions 5, 7, 8 and 9 are very depending on cultivation conditions of the candidate variety and cannot used as reference for cultivation in other climate areas.  Suggested Check Variety  11 CUTTING/LEAF 21 SUTTERHEAD 5 SALAD BOWL 22 SUTTERHEAD 1 DARK GREEN BOSTON BIBS 18 COREAT LAKES GROUP 1 CREAT LAKES GROUP 1 CREAT LAKES GROUP 1 VANGUARD GROUP 1 VANGUARD GROUP 1 VIVA			1 Roat Aphids	4 Heat 2 Brown Rib (Rib Discoloration, R	lib Blight)
POST HARVEST    Pink Rib			Green Peach Aphid	2 Drought OTHER	
Pink Rib   4   Internal Rib Necrosis (Blackheart, Gray Rib, Gray Stread)   12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:    13. COMMENTS:   The data and information presented are based on testing and evaluation of the variety in the Netherlands. The climate conditions in the Netherlands are a moderate sea climate. Especially the references made in questions 5, 7, 8 and 9 are very depending on cultivation conditions of the candidate variety and cannot used as reference for cultivation in other climate areas.    Type   CHECK VARIETY   SALAD SOWL   DARK GREEN BOSTON   BUTTE RIHEAD   DARK GREEN BOSTON   DARK GREEN BOSTON   BUTTE RIHEAD   DARK GREEN BOSTON   GREAT LAKES 659-700   VANGUARD GROUP			Other Insect	2 Cold	
Pink Rib   4   Internal Rib Necrosis (Blackheart, Gray Rib, Gray Stread)   12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:    13. COMMENTS:   The data and information presented are based on testing and evaluation of the variety in the Netherlands. The climate conditions in the Netherlands are a moderate sea climate. Especially the references made in questions 5, 7, 8 and 9 are very depending on cultivation conditions of the candidate variety and cannot used as reference for cultivation in other climate areas.    Type   CHECK VARIETY   SALAD SOWL   DARK GREEN BOSTON   BUTTE RIHEAD   DARK GREEN BOSTON   DARK GREEN BOSTON   BUTTE RIHEAD   DARK GREEN BOSTON   GREAT LAKES 659-700   VANGUARD GROUP					
Russet Sporting  Russy Brown Discoloration  12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:  The data and information presented are based on testing and evaluation of the variety in the Netherlands. The climate conditions in the Netherlands are a moderate sea climate. Especially the references made in questions 5, 7, 8 and 9 are very depending on cultivation conditions of the candidate variety and cannot used as reference for cultivation in other climate areas.  TYPE  11 CUTTING/LEAF 21 SUTTERHEAD 31 BIBS 41 COS, OR ROMAINE 51 GREAT LAKES GROUP 71 IMPERIAL GROUP			· · · · · · · · · · · · · · · · · · ·		
3. COMMENTS:  The data and information presented are based on testing and evaluation of the variety in the Netherlands. The climate conditions in the Netherlands are a moderate sea climate. Especially the references made in questions 5, 7, 8 and 9 are very depending on cultivation conditions of the candidate variety and cannot used as reference for cultivation in other climate areas.  Type  11 CUTTING/LEAF 22 BUTTERHEAD 31 BIBS 41 COS, OR ROMAINE 51 GREAT LAKES GROUP 71 IMPERIAL GROUP					.)
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7) IMPERIAL GROUP VIVA			5) GREAT LAKES GROUP	GREAT LAKES 659-700	
8) EASTERN GROUP 1THACA 1/A		•			
9) STEM CELTUCE / U 101 LATIN MATCHLESS			9) STEM	CELTUCE	

PVP Application No.: 200100274 Lettuce Variety 'Caliente' Attorney Docket No. 082671-0130

And

PVP Application No.: 200100273 Lettuce Variety 'Green Sun' Attorney Docket No. 082671-0132



GUUIUUZ/4

PVP Application No.: 200100274 Lettuce Variety 'Caliente' Attorney Docket No. 082671-0130

And

PVP Application No.: 200100273 Lettuce Variety 'Green Sun' Attorney Docket No. 082671-0132









Attorney Docket No.: 082671/0130

In re Application No.:

New Application

Variety Name:

LM 8052

Examiner:

**UNKNOWN** 

For:

Lettuce Application

#### POWER OF ATTORNEY/DESIGNATION OF REPRESENTATIVE

Plant Variety Protection Office, AMD, USDA NAL Building, Room 500 10301 Baltimore Avenue Beltsville, MD 20705-2351

Sir:

Date: August 9, 2001

The undersigned applicant in the above-identified application hereby appoints as its attorneys with full power of substitution and revocation, to prosecute this application and transact all business in the Plant Variety Protection Office in connection therewith, members of the firm of Foley & Lardner. It is requested that all correspondence be sent to:

Richard C. Peet FOLEY & LARDNER 3000 K Street, N.W., Suite 500 Washington, D.C. 20007-5109

Please address telephone communications to Richard C. Peet at (202) 672-5483.

Respectfully submitted

Lex Welles

Deputy Director New Products Dev.

**NUNZA BV** 

Voort 6

Nunhem 6083 AC

The Netherlands

REPRODUCE LOCALLY. Include form number and edition date on all reproductions.  FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).  STATEMENT OF THE BASIS OF OWNERSHIP
1. NAME OF APPLICANT(S)  NUNLEMS BY  2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER LM 8052  2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER LM 8052  Caliente
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  5. TELEPHONE (Include area code)  6. FAX (Include area code)
Street and No.: Voort 6 +31 (475) 599222 +31 (475) 599223
city: Nunhem zip: 6083 AC 7. PVPO NUMBER
country: The Netherlands 200100374
9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.
The Netherlands
10. Is the applicant the original owner?  YES  If no, please answer one of the following:
a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?  YES  O  If no, give name of country
b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?  YES If no, give name of country
The Netherlands
11. Additional explanation on ownership (If needed, use the reverse for extra space):
none
· · · · · · · · · · · · · · · · · · ·

#### PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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